

weekofyear

November 14, 2020

1 Robomind Academy

The Academy has been used for four years now. Time to show some stats.

2 Overall usage

The 'stats_weekofyear.gz' file contains usage data for all four years. The data contains only usage by students actually running Solutions to Challenges. Run-by spiders and other bots are not included.

```
[16]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

# get the csv data
csv = pd.read_csv("data/stats_weekofyear.gz")

# create multiindex year/week so we can use it to calculate datetime index
mi = csv.set_index(['year', 'weekofyear'])

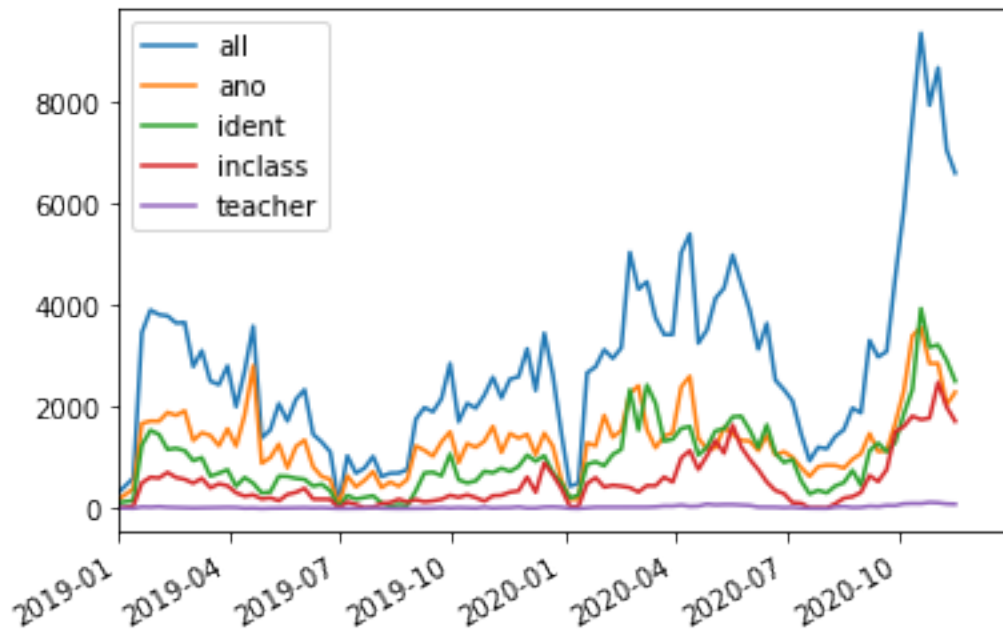
# create new index
from datetime import datetime
newindex = []
for item in mi.index:
    str = f"{item[0]} {item[1]} 0"
    t = datetime.strptime(str, "%Y %W %w")
    newindex.append(t)

#assign new index to our csv
dt = csv.reset_index()
dt.index = newindex

# drop the year/week columns
del dt['year']
del dt['weekofyear']
del dt['index']
```

```
#
# and plot the basterd
# plt = dt.plot(kind='bar', stacked=True)
plt = dt.plot()
plt.set_xlim(pd.Timestamp('2019-01-01'), pd.Timestamp('2020-12-31'))
```

[16]: (17897.0, 18627.0)



The plot shows that the overall usage remains the same over all the years. These seems to be some increase in the number of identified and in-class students as opposed to anonymous users.

```
[17]: import os
# os.system("jupyter nbconvert --to pdf --template hidecode weekofyear.ipynb")
os.system("jupyter nbconvert --to pdf weekofyear.ipynb")
```

[17]: 256